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	result set

DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES;
OP=OR

<u>L10</u>	L9 and lag	13	<u>L10</u>
<u>L9</u>	MDCT and (audio or speech) and (pitch near5 predict\$)	22	<u>L9</u>
<u>L8</u>	L7 and speech	22	<u>L8</u>
<u>L7</u>	L6 and mpeg	23	<u>L7</u>

DB=DWPI,USPT,EPAB,JPAB,TDBD; PLUR=YES;
OP=OR

<u>L6</u>	(audio or speech) and pitch and (prediction or predictive) and error and (coding near5 error) and transform and dct and lag	29	<u>L6</u>
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DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES;
OP=OR

<u>L5</u>	L3 and mpeg	23	<u>L5</u>
<u>L4</u>	L3 and psychoac\$	0	<u>L4</u>
<u>L3</u>	L1 and frame	29	<u>L3</u>
<u>L2</u>	L1 and frame and psychoacoustic	0	<u>L2</u>
<u>L1</u>	(audio or speech) and pitch and (prediction or predictive) and error and (coding near5 error) and transform and dct and lag	29	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 13 of 13 returned.** 1. Document ID: US 6353808 B1

L10: Entry 1 of 13

File: USPT

Mar 5, 2002

US-PAT-NO: 6353808

DOCUMENT-IDENTIFIER: US 6353808 B1

TITLE: Apparatus and method for encoding a signal as well as apparatus and method for decoding a signal

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 6351730 B1

L10: Entry 2 of 13

File: USPT

Feb 26, 2002

US-PAT-NO: 6351730

DOCUMENT-IDENTIFIER: US 6351730 B1

TITLE: Low-complexity, low-delay, scalable and embedded speech and audio coding with adaptive frame loss concealment[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 3. Document ID: US 6292777 B1

L10: Entry 3 of 13

File: USPT

Sep 18, 2001

US-PAT-NO: 6292777

DOCUMENT-IDENTIFIER: US 6292777 B1

TITLE: Phase quantization method and apparatus

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 4. Document ID: US 6243672 B1

L10: Entry 4 of 13

File: USPT

Jun 5, 2001

US-PAT-NO: 6243672

DOCUMENT-IDENTIFIER: US 6243672 B1

TITLE: Speech encoding/decoding method and apparatus using a pitch reliability measure

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

5. Document ID: US 6034632 A

L10: Entry 5 of 13

File: USPT

Mar 7, 2000

US-PAT-NO: 6034632

DOCUMENT-IDENTIFIER: US 6034632 A

TITLE: Signal coding method and apparatus

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

6. Document ID: US 6012023 A

L10: Entry 6 of 13

File: USPT

Jan 4, 2000

US-PAT-NO: 6012023

DOCUMENT-IDENTIFIER: US 6012023 A

TITLE: Pitch detection method and apparatus uses voiced/unvoiced decision in a frame other than the current frame of a speech signal

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

7. Document ID: US 5983173 A

L10: Entry 7 of 13

File: USPT

Nov 9, 1999

US-PAT-NO: 5983173

DOCUMENT-IDENTIFIER: US 5983173 A

TITLE: Envelope-invariant speech coding based on sinusoidal analysis of LPC residuals and with pitch conversion of voiced speech

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

8. Document ID: US 5960388 A

L10: Entry 8 of 13

File: USPT

Sep 28, 1999

US-PAT-NO: 5960388

DOCUMENT-IDENTIFIER: US 5960388 A

TITLE: Voiced/unvoiced decision based on frequency band ratio

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

9. Document ID: US 5950155 A

L10: Entry 9 of 13

File: USPT

Sep 7, 1999

US-PAT-NO: 5950155

DOCUMENT-IDENTIFIER: US 5950155 A

TITLE: Apparatus and method for speech encoding based on short-term prediction valves[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 10. Document ID: US 5878388 A

L10: Entry 10 of 13

File: USPT

Mar 2, 1999

US-PAT-NO: 5878388

DOCUMENT-IDENTIFIER: US 5878388 A

TITLE: Voice analysis-synthesis method using noise having diffusion which varies with frequency band to modify predicted phases of transmitted pitch data blocks[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 11. Document ID: US 5819212 A

L10: Entry 11 of 13

File: USPT

Oct 6, 1998

US-PAT-NO: 5819212

DOCUMENT-IDENTIFIER: US 5819212 A

TITLE: Voice encoding method and apparatus using modified discrete cosine transform

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 12. Document ID: US 5765127 A

L10: Entry 12 of 13

File: USPT

Jun 9, 1998

US-PAT-NO: 5765127

DOCUMENT-IDENTIFIER: US 5765127 A

TITLE: High efficiency encoding method

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 13. Document ID: EP 770985 A2

L10: Entry 13 of 13

File: EPAB

May 2, 1997

DOCUMENT-IDENTIFIER: EP 770985 A2
TITLE: Signal encoding method and apparatus

Abstract (1):

CHG DATE=19990617 STATUS=O> A method and apparatus for encoding an input signal, such as a broad-range speech signal, in which plural decoding operations with different bit rates is enabled for assuring a high encoding bit rate and for minimizing deterioration of the reproduced sound even with a low bit rate. The signal encoding method includes a band-splitting step for splitting an input signal into plurality of bands and a step of encoding signals of the bands in a different manner depending on signal characteristics of the bands. Specifically, a low-range side signal is taken out by a low-pass filter (LPF) 102 from an input signal entering a terminal 101, and analyzed for LPC by an LPC analysis quantization unit 130. After finding the LPC residuals, as short-term prediction residuals by an LPC inverted filter 111, the pitch is found by a pitch analysis circuit 115. Then, pitch residuals are found by long-term prediction by a pitch inverted filter 112. The pitch residuals are processed with MDCT by a modified DCT (MDCT) circuit 113 and vector-quantized by a vector-quantization (VQ) circuit 114. The resulting quantization indices are transmitted along with the pitch lag and the pitch gain. The linear spectral pairs (LSP) are also sent as parameter representing LPC coefficients.

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Terms	Documents
L9 and lag	13

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